

*Papers read before the Society from February 1881 to
February 1882.*

1881.

- Mar. 11. Observations of Comet *c*, 1880 (Swift), made at Dun Echt Observatory with the filar micrometer of the 15.06-in. refractor. The Earl of Crawford.
Effect on the Moon's movement in latitude produced by the slow change of position of the plane of the ecliptic. Sir G. B. Airy.
Observations of the phenomena of the satellites of *Jupiter*, with a few transits of the red spot; also a few observations of the brighter satellites of *Saturn*, made at the Observatory of Mr. Edward Crossley. J. Gledhill.
Note on the comparative brightness of the nebula of *Orion*. E. B. Knobel.
Comparative observations of disappearance and reappearance of *Jupiter's* satellites. Rev. S. J. Johnson.
Note on a paper by Mr. Denning in the December number of the *Monthly Notices*. J. L. McCance.
A reply to Mr. Christie's paper on Mr. Stone's alterations of Bessel's refractions. E. J. Stone.
The partial eclipse of the Sun, 1880, Dec. 31. J. Rand Capron.
Second catalogue of radiant points of meteors. E. F. Sawyer.
On the determination of the value for the parallactic inequality in the motion of the Moon. J. Campbell and E. Neison.
- Apr. 8. Observations of the red spot on *Jupiter*. J. Tebbutt.
Note on the inequality of the Moon's latitude which is due to the secular change of the plane of the ecliptic. Prof. J. C. Adams.
Note on the durations observed by the French observers at the Transit of *Venus*, 1874. E. J. Stone.
The planetary nebula in *Cygnus*. S. W. Burnham.
On the solar parallax derived from observations of *Mars* at Ascension in 1877 (abstract). D. Gill.
- May 13. On a simple approximate method of calculating the effect of refraction upon the distance and position-angle of two adjacent stars. Prof. R. S. Ball.
On the inclination of the Zodiacal light. T. W. Backhouse.

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Fall of a meteorite on March 14, 1881. Prof. A. S. Herschel.

The nebula near *Merope*. Prof. G. W. Hough and S. W. Burnham.

Transit times of the spots on *Jupiter*. W. F. Denning.

Addition to a paper on the effect of the Moon's movement in latitude produced by the slow change of position of the plane of the ecliptic. Sir G. B. Airy.

Note on the physical libration of the Moon. E. Hartwig.

Note on the flexure of the Greenwich Transit Circle. W. H. M. Christie.

Further remarks on Mr. Stone's alterations of Bessel's refractions. W. H. M. Christie.

On the supposed difference in the refractions north and south of the zenith of Melbourne. A. M. W. Downing.

Observations of the companion of *Sirius* made at the United States Naval Observatory, Washington. Prof. A. Hall.

Note on the effect of atmospheric dispersion on the determination of the solar parallax by meridian observations of *Mars*. E. J. Stone.

Note on some points connected with the determination of the coefficient of the parallactic inequality. E. J. Stone.

Ephemeris for physical observations of *Jupiter*, 1881-82. A. Marth.

Note on photographs of the nebula in *Orion*. Dr. H. Draper.

June 10. The geographical position of the Observatory of the John C. Green School of Science at Princeton, New Jersey. Prof. C. A. Young.

Ephemeris for finding the positions of the satellites of *Neptune*, 1881-82. A. Marth.

Observations of the solar eclipse of 1880, Dec. 31, made at the Royal Observatory, Greenwich. The Astronomer Royal.

On the comparison of the computed and observed motions of the components of the binary system ξ *Ursæ Majoris*. Prof. C. Pritchard.

On the Moon's photographic diameter, and on the applicability of celestial photography to accurate measurement. Prof. C. Pritchard.

On the determination of the Moon's libration. A. Marth.

Proper motions, chiefly in the southern hemisphere, obtained from a comparison between the positions

of the Cape Catalogue, 1880, and other published catalogues. E. J. Stone.

Nov. 11. Observations of Comet *b*, 1881, made at Monte Video. Lieut. B. Gwynne.

Note on Mr. Gill's Ascension observations. G. F. Hardy.

Apparent places of Comet *b*, 1881, from observations made with the North equatoreal of the Melbourne Observatory. R. L. J. Ellery.

Observations and orbit-elements of Comet II., 1881. J. Tebbutt.

Comet *c*, 1881 (Schäberle). T. W. Backhouse.

Elements of Comet *b*, 1881. H. T. Vivian.

Approximate positions of Comet *b*, 1881, deduced from observations made at the Adelaide Observatory. C. Todd.

Observations of Comet *b*, 1881, made at Stonyhurst Observatory. Rev. S. J. Perry.

Physical observations of Comets *b* and *c*, 1881, made at Forest Lodge, Maresfield. Capt. W. Noble.

Ephemeris for finding the positions of the satellites of *Uranus*, 1882. A. Marth.

Note on sketches of Comet *b*, 1881. E. B. Knobel.

On the North Polar Distances of the Cape Catalogue for 1880, and on the Greenwich and Cape Mean Systems of North Polar Distances. A. M. W. Downing.

On the spectra of Comets *b* and *c*, 1881, observed at the Royal Observatory, Greenwich. The Astronomer Royal.

On a simple and practicable method of measuring the relative apparent brightnesses or magnitudes of the stars, with considerable accuracy. Prof. C. Pritchard.

Showers of large Meteors. W. F. Denning.

Observations of Comet *b*, 1881, made at Sandy Point, Straits of Magellan. Lieut. B. Gwynne.

Observations of Comet *b*, 1881. Rev. S. S. O. Morris.

Observations of Comet *c*, 1881, made at Grenada, West Indies. Capt. J. C. Maling.

Note on Mr. Christie's paper in the *Monthly Notices* for May, 1881. E. J. Stone.

On the orbit of Denning's Comet. Prof. A. Winnecke.

On the value of the parallactic inequality. J. Campbell and E. Neison.

Dec. 9. Observations of *Venus* in the spring of 1881. W. F. Denning.

Radiant points of shooting stars observed at Bristol in the years 1878 and 1879. W. F. Denning.

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On the motion of the companion of *Sirius*. W. E. Plummer.

Note on the variable star D.M. + 1° No. 3408. Prof. C. Pritchard.

On the method for finding the elements of the orbit of a comet by a graphical process. F. C. Penrose.

On the conjunctions of the satellites of *Uranus* with each other which may be observable from February to May 1882. A. Marth.

On a new form of transit circle, with a prismatic object-glass. E. J. Stone.

Note on Messrs. Campbell and Neison's paper on the parallactic inequality, in the supplementary number of the *Monthly Notices*. E. J. Stone.

Note on silvering large mirrors. A. A. Common.

Observations of *Mimas*, 1881. A. A. Common.

Note on the discovery of Comet *c*, 1881 (Schäberle). W. F. Denning.

On some systematic errors in the determinations of the semi-diameter of the Moon from the Greenwich Observations 1750–1840. E. J. Stone.

1882.
Jan. 13.

The relative motions of the great red spot and brilliant equatorial spot on *Jupiter*. W. F. Denning.

Observations of the Transit of *Mercury*, 1881, November 7–8, made at Windsor, New South Wales. J. Tebbutt.

Observations of the Transit of *Mercury*, 1881, November 7–8, made at the Melbourne Observatory. R. L. J. Ellery.

Observations of the satellites of *Mars*. J. Watson.

Phenomena of *Jupiter's* satellites and occultations of stars by the Moon observed at Stonyhurst Observatory. Rev. S. J. Perry.

Observations of *Deimos* made at the Royal Observatory, Greenwich. Astronomer Royal.

The *Merope* nebula. Lewis Swift.

Note on the employment of photography in the Transit of *Venus*, 1882. E. W. Maunder.

Remarques sur la méthode proposée par M. le Professeur Pritchard pour la mesure de l'éclat des astres. M. Loewy.

The Transit of *Mercury* observed at Castlemaine, Victoria. Dr. W. Bone.

Note on the Transit of *Mercury*, 1881, November 8. Dr. L. S. Little.

Madras observations of *Jupiter's* satellites. N. R. Pogson.

Observations of the Transit of *Mercury* on November 7–8, 1881, at Vizagapatam. A. V. Nursinga Row.

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